

## EQUIPMENT AND INSTRUMENTATION MASTER CHECKLIST

	Daily	Week	Month	Quarter	Calendar Year	SAT	UNSAT	Comments
Furnace Feed Valve			X					Proper Operation/Pressure
Dewater Screw		X						Oil, Check Chain, Grease, Bearings
Weighbelt		X						Oil, Check Chain, Grease Bearings
Weighbelt Calibration			X					Zero and Chain Test
Rotary Air Lock			X					Grease Bearings
Drop Chute (Furnace Inlet)		X						Inspect for Corrosion, Leaks
Furnace Brickwork (Internal)					X			Condition of Brick/Hearths
Furnace Brickwork (Roof-External)		X						Check External Condition of Brickwork
Furnace Draft Sensor		X						Check for Buildup and Plugging
Furnace Hearth Doors		X						Corrosion/Leakage
Furnace Shaft Cooling Fan		X						Inspect , Oil, Grease, Check Belts
Furnace Shaft Cooling Fan (Backup)		X						Inspect , Oil, Grease, Check Belts, Fuel
Furnace Shaft					X			Check Gearbox Oil
Furnace Drop Chute (Outlet)		X						Check for Leaks and Corrosion
Cooling Screw		X						Check Chain, Oil and Grease, External Leaks
Afterburner Brickwork (Internal)					X			Check Condition of Brick/Choke Ring
Afterburner Slag Buildup					X			Check for Slag Build Up
Combustion Air Fan (B-7)		X						Check Bearings, Vibration
Water Seal	X							Level/Corrosion
Venturi Pressure Differential Instrumentation					X			Calibration on Plant Schedule
Venturi Adjustable Throat - Actuator	X							Control DP Properly
Venturi Bleed TDS Probe/Instrumentation		X						Calibration/Condition of Sensor
P-28 & 29 Caustic Pumps		X						Check Oil Level
P-22 Scrubber Pump		X						Check Oil Level and Pressure
P-22 Scrubber Pump - Impeller, Motor, Coupling					X			Annual Inspection of Internal Parts
P-22 Strainer - Inspection					X			Check and Clean if Needed
Venturi pH and TDS Probes		X						Calibration/Inspection
Quench/Venturi Sprays					X			Visual Inspection
Quench/Venturi Magnetic Flow Meters	X							Daily Flow Check
Quench/Venturi Magnetic Flow Meters Calibration					X			Annual Calibration
P-27 Scrubber Pump	X							Check Oil Level and Pressure
P-27 Scrubber Pump - Impeller, Motor, Coupling					X			Annual Inspection of Internal Parts
P-27 Strainer - Inspection					X			Check Pump PSI
Packed Bed Scrubber Sprays					X			Visual Inspection
Packed Bed pH Probe		X						Calibration/Inspection
Packed Bed Pressure Differential Instrumentation					X			Calibration on Plant Schedule
Packed Bed Scrubber Packing					X			Inspection Packing Condition

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Packed Bed Flow Meter	X				X			Annual Calibration/Daily Flow Check (Visual)
Wet Electrostatic Precipitator (Internal)					X			Annual Inspection
Wet Electrostatic Precipitator (Insulators)					X			Inspect Insulators/ Clean
Wet Electrostatic Precipitator (Insulators)								Wash Down as Needed
ID Fan		X						Check VFD Filter and Grease Bearings
ID Fan Bearing Temperatures	X							Check Daily
ID Fan Amperage Instrumentation	X							Check for Proper Operation
ID Fan Damper					X			Check for Proper Rotation
ID Fan Feedback Loop			X					Calibrate if Needed
City Water Booster Pumps		X			X			Check PSI / Annual Inspected Coupling and Motor
Stack Condition (External)		X						Cracks, Foundation, Outer Shell
Stack Flow Monitor	X				X			Daily/Annual Calibration
Stack CEMS Monitor	X							Calibration/Flow (Visual)
T-19 Level Sensor	X				X			Proper Operation/Visual Inspection
Plant PLC	X				X			Inspection
Plant Alpha Server	X				X			Proper Operation
UV Flame Detectors					X			Check for Blockage
Recycle Water Pumps (P4 and P5)		X			X			Grease Bearings and Check Packing
Bag House PPB		X						Inspect Belts and Grease
PPB Baghouse Fan		X						Belts/Grease
Product Screener		X						Oil, Inspect Belts, Grease
Product Conveyor		X						Gearbox Oil and Grease
S-2 and S-4 Conveyors		X						Oil, Inspect Belts, Grease
Air Compressor #1		X						Hours, Oil and Filter
Air Compressor #2		X						Hours, Oil and Filter
Air Compressor #3		X						Hours, Oil and Filter
Cooling Water pH and TDS Probes		X						Check Calibration
POTW COMPLIANCE TESTING		X						Check Calibration
Water Treatment Plant Operation	X							Check Calibration
Water Treatment pH Probes		X						Check Calibration
C-4 Transporter	X							Oil, Inspect Belts, Grease
Portable Trash Pump		X						Proper Operation
Water Treatment System	X							Inspect All Equipment

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Instrument Calibration Schedule								
City Water Inlet - FIT-350					X			Calendar Annual
Furnace Thermocouple - TE-457					X			Calendar Annual
Afterburner Thermocouple - TE-464					X			Calendar Annual
Quench Spray Flow - FIT-554					X			Calendar Annual
Water Seal Flow - FIT - 553					X			Calendar Annual
Venturi Spray Flow - FIT-555					X			Calendar Annual
Venturi Pressure Differential - PDIT-556					X			Calendar Annual
Venturi Blowdown Flow - FIT-605					X			Calendar Annual
Packed Bed Flow - FIT-552					X			Calendar Annual
Packed Bed Differential - PDIT-560					X			Calendar Annual
Packed Bed pH - AIT-590					X			Calendar Quarter
Stack Flow - FIT-199					X			Calendar Annual
CEMS Cylinder Gas Audit				X				Calendar Quarter
CWT Inlet Flow - FIT-503					X			Calendar Annual
POTW pH - AIT-41		X						POTW Permit Requirement
POTW TDS - AIT-358		X						POTW Permit Requirement
POTW Temperature - TIT-42					X			POTW Permit Requirement
POTW Discharge Flow - FIT-200					X			POTW Permit Requirement